

WHAT IS CLAIMED IS:

- 5 ~~Sub A1~~ A method for making a bloom-free thermoplastic polyurethane comprising blending an amount of a chain terminator selected from the group consisting of monofunctional alkylene alcohol having at least 14 carbon atoms, mono-isocyanate and mono-amine, in a thermoplastic polyurethane, said polyurethane being the product of a reaction wherein reactants comprise
- 10 (i) at least one hydroxy functional polyol selected from the group consisting of polyester polyol, polyether polyol and polycarbonate polyol, having a number average molecular weight of 500 to 5000 and a hydroxyl functionality of at least 2,
- (ii) a chain extending compound selected from the group consisting of diols and diamines having a molecular weight of 60 to 500 g/mol,
- (iii) an organic diisocyanate,
- 15 wherein said (i), (ii) and (iii) are present in the reaction in such amounts that the ratio NCO/H therebetween is 0.95 to 1.05, said amount of chain terminator being sufficient to render said product bloom-free.
2. The method of Claim 1 wherein chain terminator is at least one monofunctional alkylene alcohol having at least 14 carbon atoms.
- 20 3. The method of Claim 1 wherein hydroxy functional polyol is polyester polyol.
4. The method of Claim 1 wherein hydroxy functionality is 2.
5. The method of Claim 1 wherein the organic diisocyanate is at least one member selected from the group consisting of 1,6-
- 25 hexamethylene diisocyanate, isophorone diisocyanate, dicyclohexylmethane diisocyanate, diphenylmethane diisocyanate, and 1,5-naphthalene diisocyanate.
6. The method of Claim 5 wherein the diisocyanate is diphenylmethane-4,4'-diisocyanate.

7. The method of Claim 1 wherein the chain extender is a diol conforming to the formula



where R'' denotes an alkylene radical.

- 5        8. The method of Claim 7 wherein chain extender is at least one member selected from the group consisting of ethanediol, 1,6-hexanediol, diethylene glycol, dipropylene glycol and butanediol.
9. The method of Claim 1 wherein monoalcohols are non-aromatic.
- 10       10. The method of Claim 1 wherein monoalcohols have 14 to 22 carbon atoms.
11. The method of Claim 1 wherein chain terminator is stearyl alcohol.
12. The method of Claim 1 wherein amount of chain terminator is 0.01 to 0.8 percent relative to the weight of the TPU.

*Added BQ* 